

369T20" 929T150

FIG. 1

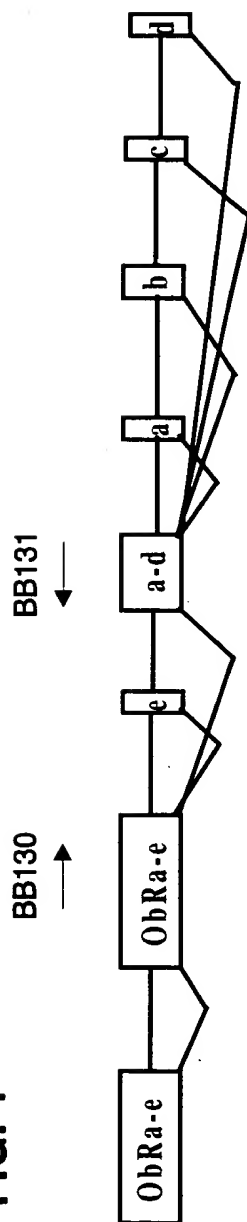


FIG. 2A

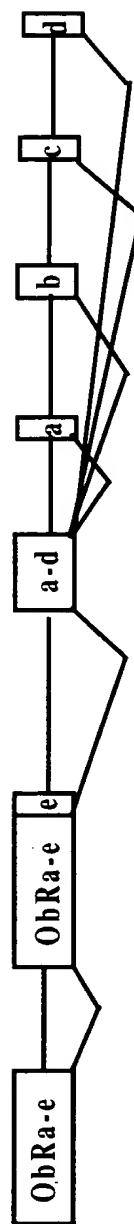
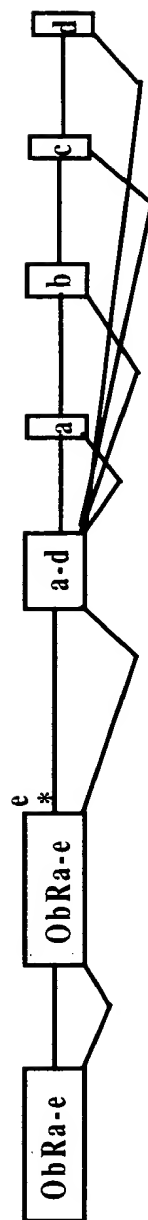


FIG. 2B



869720" 9/99T60

FIG. 3A

Sequence across the mouse intron-exon border:

aatgttaaaaagtttcacatccacgggtatgtgtactgtacttttcatggattag
 N V K K F H I H G M C T V L F M D *

Sequence across the human intron-exon border:

tctgttaagaagtattatatccatggtaagtttactatacttttag
 S V K K Y Y I H G K F T I L *

FIG. 3B

Mouse Ob-Re: ggatatgtgtactgtacttttcatggat
 Human Ob-Re: ggtaagtttactatactt

Mouse Ob-Re: G M C T V L F M D
 Human Ob-Re: G K F T I L

869T20" 9299T160

FIG. 4A

1 ATGATTTGTCAAAAATTCGTGTGGTTTGTGTACATTGGGAATTATTATGTGATAACT 60
61 GCGTTTAACTTGTCAATCAATTAATCCTTGGAGATTAAAGTTGTCTTGCATGCCACCA 120
121 AATTCAACCTATGACTACTTCCCTTTTGCCCTGCTGGACTCTCAAAGAAATACTTCAAATTCG 180
181 AATGGACATATGAGACAGCTGTGAACCTAAGTTTAATCAAGTGGTACTCACTTTTCT 240
241 AACTTATCCAAAACAACCTTCCACTGTGCTTTCGGAGTGAGCAAGATAGAAAACCTGCTCC 300
301 TTATGTGCAGACAACATGAAGGAAAGACATTTGTTCACACAGTAAATTCTTTAGTTTTT 360
361 CAACAAATAGATGCAAACTGGAACATACAGTGTGGCTAAAAGGAGACTTAAAAATTATTC 420
421 ATCTGTTATGTGGAGTCATTAATTAAAGAAATCTATTTCAGGAAATTATAACTATAAGGTCCAT 480
481 CTTTATAATGTTCTGCCCTGAAGTGTAGAAAGATTACCTCTGGTTCCCCAAAAGGCAGT 540
541 TTTTCAGATGGTTCACCTGCAATTGCAGTGTTCATGAATGTTGTGAATGTCCTTGTGCCCTGTG 600
601 CCAACAGCCAAACTCAACGACACTCTCCTTATGTGTTTGAAAATCACAATCTGGTGGAGTA 660
661 ATTTTCCAGTCACCTCTAATGTTCAGTTTCAGCCCCATAAATATGGTGAAGCCTGATCCACCA 720
721 TTAGGTTTGCATATGGAAATCACAGATGATGGTAATTAAAGATTCTTGGTCCAGCCCA 780
781 CCATTGGTACCATTTCCACTTCAATATCAAGTGAATATTCAGAGAAATTCACAACAGTT 840
841 ATCAGAGAAGCTGACAAGATTGTCTCAGCTACATCCCTGCTAGTAGACAGTATACTTCCT 900
901 GGGTCTTCGTATGAGGTTTCAGGTGAGGGCAAGAGACTGGATGGCCAGGAATCTGGAGT 960
961 GACTGGAGTACTCCCTCGTGTCTTTACCACACAAGATGTCTATATACTTCCACCTAAAATT 1020
1021 CTGACAAGTGTGGGTCTAATGTTTCTTTTCACTGCATCTATAAGAAAGGAAAACAAGATT 1080
1081 GTTCCCTCAAAGAGATTGTTTGGTGGATGAATTTAGCTGAGAAAATTCCTCAAGCCAG 1140
1141 TATGATGTTGTGAGTGATCATGTTAGCAAAGTTACTTTTTCATCTGAATGAAACCCAAA 1200
1201 CCTCGAGGAAAGTTTACCCTATGATGCAGTGTACTGCTGCAATGAACATGAATGCCATCAT 1260

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4/14

FIG. 4B

1261 CGCTATGCTGAATTATATGTGATTGATGTCAAATATCAATATCTCATGTGAAACTGATGGG 1320
1321 TACTTAACATAAATGACTTGACAGATGGTCAACCAAGTACAAATCCAGTCACCTTGCGGAAAGC 1380
1381 ACTTTGCAATTGAGGTATCATAGGAGCAGCCTTTACTGTTCTGATATTCCATCTATTTCAT 1440
1441 CCCATATCTGAGCCCAAGATTGCTATTTCGACAGTGATGGTTTTTATGAATGCATTTTC 1500
1501 CAGCCAATCTTCCCTATTATCTGGCTACACAATGTGGATTAGGATCAATCACTCTCTAGGT 1560
1561 TCACCTTGACTCTCCACCAACATGTGTCTTCCCTGATTCTGTGGTGAAAGCCACTGCCCTCCA 1620
1621 TCCAGTGTGAAAGCAGAAATTACTATATAACAATTGGATTATTGAAAAATATCTTTGGGAAAAAG 1680
1681 CCAGTCTTTCCAGAGAAATAACCTTTCAATTCCAGATTTCGGCTATGGTTTAAAGTGGAAGAAAGAA 1740
1741 GTACAAATGGAAGATGTATGAGGTTTATGATGCAAAAATCAAAAATCTGTCAAGTCTCCCCAGTT 1800
1801 CCAGACTTGTGTGCAGTCTATGCTGTTTCAGGTGCGCTGTAAAGAGGCTAGATGGACTGGGA 1860
1861 TATTGGAGTAATTGGAGCAATCCAGCCTACACAGTTGTCTATGGATATAAAAAGTTCCCTATG 1920
1921 AGAGGACCTGAAATTTTGGAGAAATAATTAAATGGAGATACTATGAAAAAGGAGAAAAAATGTC 1980
1981 ACTTTACTTTGGAAGCCCCCTGATGAAAAAATGACTCATTTGTGCAGTGTTCAGAGATATGTG 2040
2041 ATAAACCATCATACTTCCCTGCAATGGAACATGGTCAGAAGATGTGGGAAATCACACGAAA 2100
2101 TTCACCTTCCCTGTGGACAGAGCAAGCACATACTGTACGGTTCTGGCCATCAATTCAATT 2160
2161 GGTGCTTCTGTGCAAAATTTAAATTTAACCCTTTTCATGGCCTATGAGCAAAAGTAAATATC 2220
2221 GTGCAGTCACTCAGTGTCTATCCCTTTAAACAGCAGTTGTGTGATTGTTTCCCTGGATACATA 2280
2281 TCACCCAGTGATTACAAGCTAATGTATTTTATTTATTTGAGTGGAAAAAATCTTAATGAAGAT 2340
2341 GGTGAAATAAAAATGGCTTAGAATCTCTTTCATCTCTGTTAAGAAAGTATTATATCCATGGTAAG 2400
2401 TTTACTATACTTTAG 2415

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5/14

1	20	T
21	40	P
41	60	S
61	80	S
81	100	S
101	120	F
121	140	F
141	160	H
161	180	S
181	200	V
201	220	V
221	240	P
241	260	P
261	280	V
281	300	P
301	320	S
321	340	I
341	360	I
361	380	Q
381	400	K
401	420	H

1	I	V	Y	I	F	E	W	L	C	N	D	M	I	L	I	Q	V	N	V	H	Y
21	S	M	C	S	L	K	S	R	N	G	D	N	P	C	T	K	S	N	D	P	F
41	N	S	T	T	G	S	Q	V	G	Y	V	E	I	V	I	E	V	G	Y	K	
61	F	S	S	E	T	K	N	L	C	K	M	K	S	L	D	I	Y	E	F	N	
81	C	H	N	S	S	L	R	P	C	L	N	L	Y	L	V	I	A	F	C		
101	V	L	A	K	F	F	C	L	D	H	M	P	G	V	T	K	Q	H	N	V	
121	L	P	P	P	C	T	Q	N	E	V	L	Q	D	Q	A	G	T	F	M	K	
141	T	L	E	C	K	I	K	L	S	L	V	D	Y	S	R	T	S	W	S	A	
161	I	L	V	H	G	N	F	V	C	T	S	T	Q	V	V	F	V	W	V	D	
181	C	P	F	A	F	E	W	L	E	N	D	M	I	L	I	Q	V	N	V	H	
201	F	Y	Y	T	T	I	N	S	P	C	N	L	E	P	K	V	R	S	I	D	
221	K	S	D	E	T	N	A	E	L	H	L	P	M	F	D	E	P	G	E	S	
241	Q	L	Y	Y	K	D	D	V	V	V	K	S	H	P	A	Y	T	V	K	V	
261	C	N	T	H	S	A	I	Y	Y	M	A	Q	L	V	E	S	S	S	S	V	
281	I	F	S	G	L	C	Q	C	L	Q	T	F	G	L	R	S	W	T	P	D	
301	M	A	N	N	N	L	Q	I	L	F	P	I	L	P	I	G	D	L	V	Y	
321																					

FIG. 5A

869720-9299T60

FIG. 5B

440	G	D	T	E	C	S	I	I	N	S	I	N	T	I	V	L	R	S	I	N	T	L	S	D	I	R	G	I	K	R	V	D	S	S	V	T	F	S	I	S	V	N	F	S	S	I	S	A	T	Y	R																																																																																										
460	S	E	A	L	S	I	Q	I	C	S	Q	D	Y	S	W	P	I	Q	A	V	T	G	D	W	T	F	S	I	S	N	R	L	C	E	F	Y	L	R	Y	T	K	L	P	E	N	Y	V	S	W	P	S	T	N	A	K	L	W	E	K	L	F	S	K	P	K	C	N	E	W	H	L	V	L	D	K	L	A	T	Q	S	I	D	V	F	W	L	S	P	L	H	F	S	S	S	S	I	I	Y	L	L	I	P	L	S	S	V	Q	D	W	G	L	N	T	F	G	V	S	P	E	T	R	Y	T	P	Q	S	S	P	V	P	Y	R	T	I	F	G	V	S	G	F	421
480	H	I	S	I	Y	I	F	G	H	N	F	I	R	D	G	N	F	D	Q	Y	N	N	T	H	T	N	F	S	S	I	R	L	C	E	F	Y	L	R	Y	T	K	L	P	E	N	Y	V	S	W	P	S	T	N	A	K	L	W	E	K	L	F	S	K	P	K	C	N	E	W	H	L	V	L	D	K	L	A	T	Q	S	I	D	V	F	W	L	S	P	L	H	F	S	S	S	S	I	I	Y	L	L	I	P	L	S	S	V	Q	D	W	G	L	N	T	F	G	V	S	G	F	441																					
500	F	I	C	E	Y	N	D	R	I	C	D	Y	S	W	P	I	Q	A	V	T	G	D	W	T	F	S	I	S	N	R	L	C	E	F	Y	L	R	Y	T	K	L	P	E	N	Y	V	S	W	P	S	T	N	A	K	L	W	E	K	L	F	S	K	P	K	C	N	E	W	H	L	V	L	D	K	L	A	T	Q	S	I	D	V	F	W	L	S	P	L	H	F	S	S	S	S	I	I	Y	L	L	I	P	L	S	S	V	Q	D	W	G	L	N	T	F	G	V	S	G	F	460																						
520	G	L	S	L	N	K	I	V	L	R	S	I	C	G	I	Q	A	V	T	G	D	W	T	F	S	I	S	N	R	L	C	E	F	Y	L	R	Y	T	K	L	P	E	N	Y	V	S	W	P	S	T	N	A	K	L	W	E	K	L	F	S	K	P	K	C	N	E	W	H	L	V	L	D	K	L	A	T	Q	S	I	D	V	F	W	L	S	P	L	H	F	S	S	S	S	I	I	Y	L	L	I	P	L	S	S	V	Q	D	W	G	L	N	T	F	G	V	S	G	F	480																							
540	P	P	L	H	N	K	I	V	L	R	S	I	C	G	I	Q	A	V	T	G	D	W	T	F	S	I	S	N	R	L	C	E	F	Y	L	R	Y	T	K	L	P	E	N	Y	V	S	W	P	S	T	N	A	K	L	W	E	K	L	F	S	K	P	K	C	N	E	W	H	L	V	L	D	K	L	A	T	Q	S	I	D	V	F	W	L	S	P	L	H	F	S	S	S	S	I	I	Y	L	L	I	P	L	S	S	V	Q	D	W	G	L	N	T	F	G	V	S	G	F	500																							
560	K	E	W	S	I	L	G	S	R	D	K	S	V	L	M	I	K	Y	I	C	S	I	Q	D	Y	S	W	P	I	Q	A	V	T	G	D	W	T	F	S	I	S	N	F	S	S	I	S	A	T	Y	R	421																																																																																									
580	E	K	G	K	S	L	V	L	I	K	V	G	A	S	V	N	Y	I	C	S	I	Q	D	Y	S	W	P	I	Q	A	V	T	G	D	W	T	F	S	I	S	N	F	S	S	I	S	A	T	Y	R	441																																																																																										
600	V	P	L	P	S																																																																																																																																								

APPROVED	O.E. FIG.	
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7/14

09116576-071658

FIG. 6A

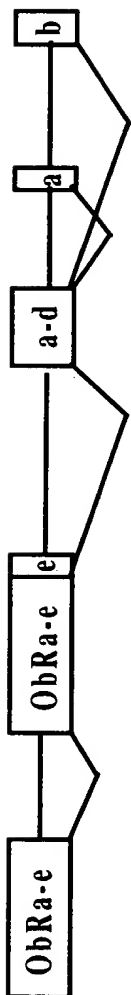
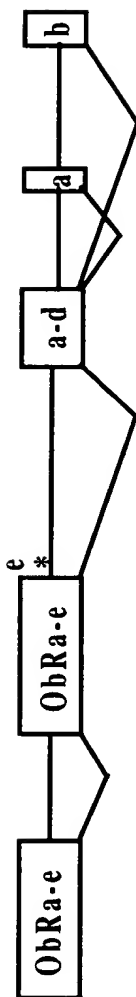


FIG. 6B



3.

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8/14

FIG. 7A

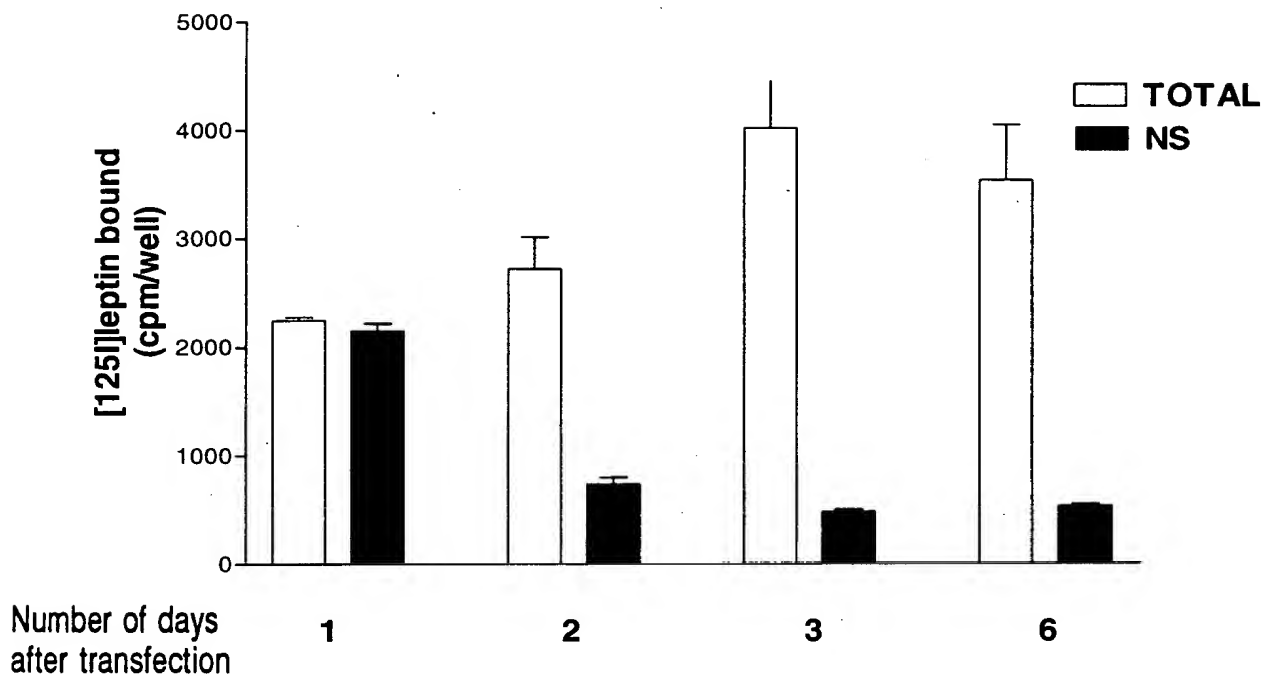
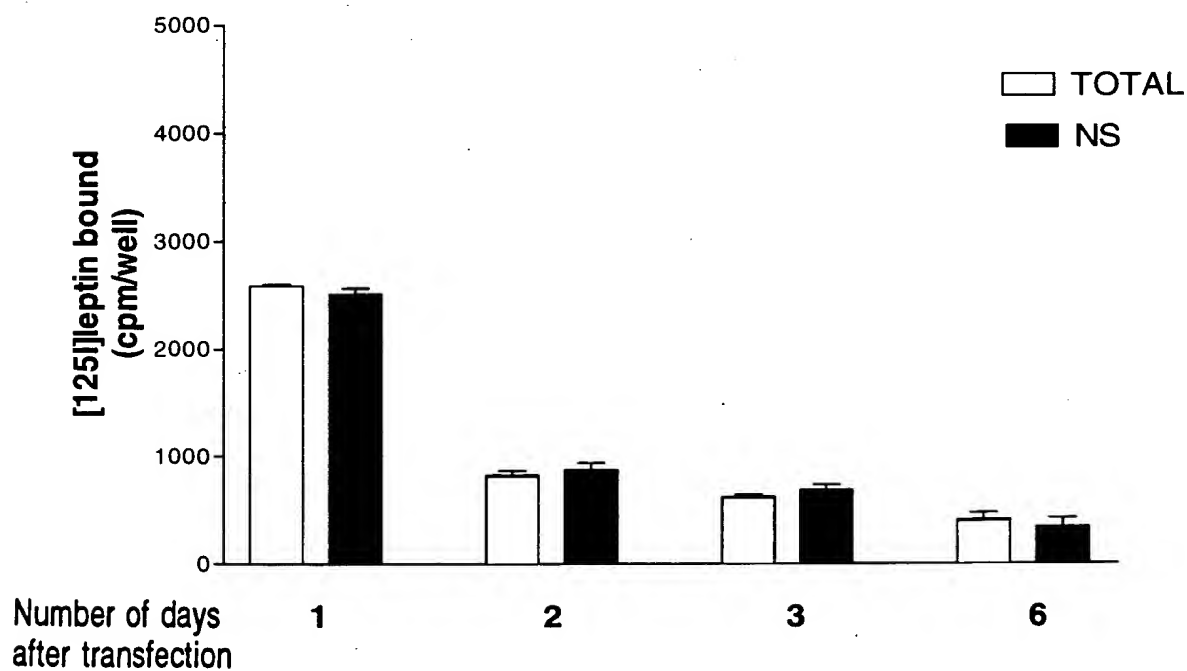


FIG. 7B



8169T/0" 9/99T/60

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9/14

FIG. 7C

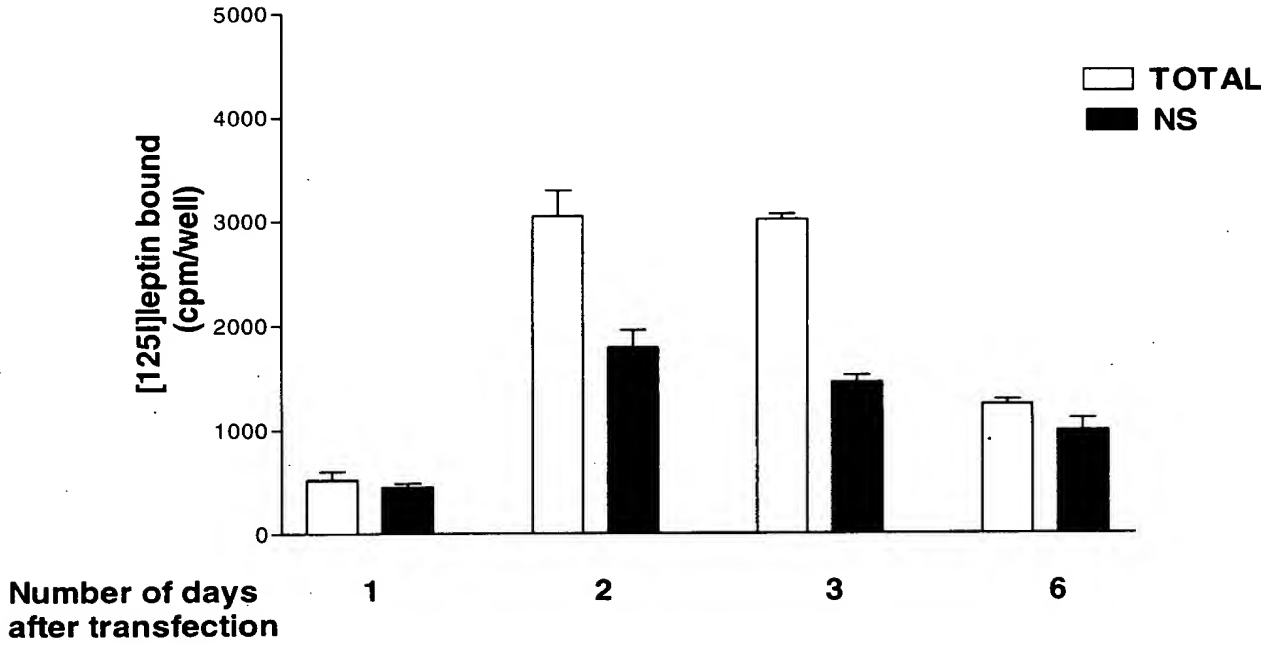
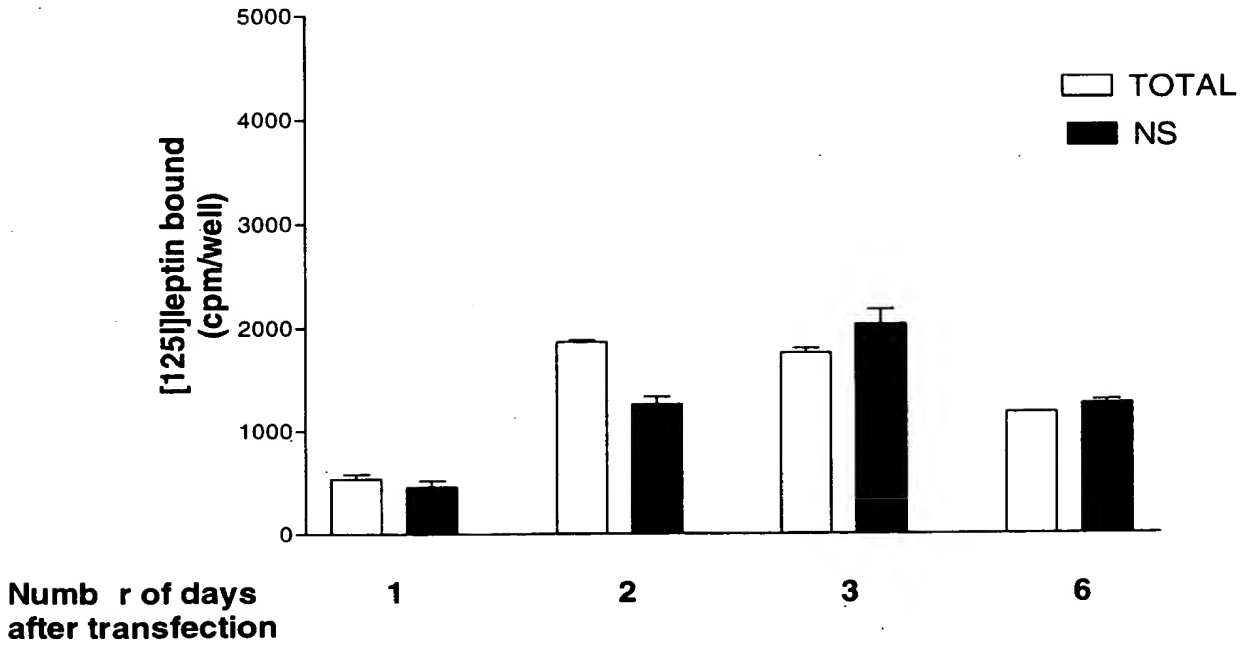
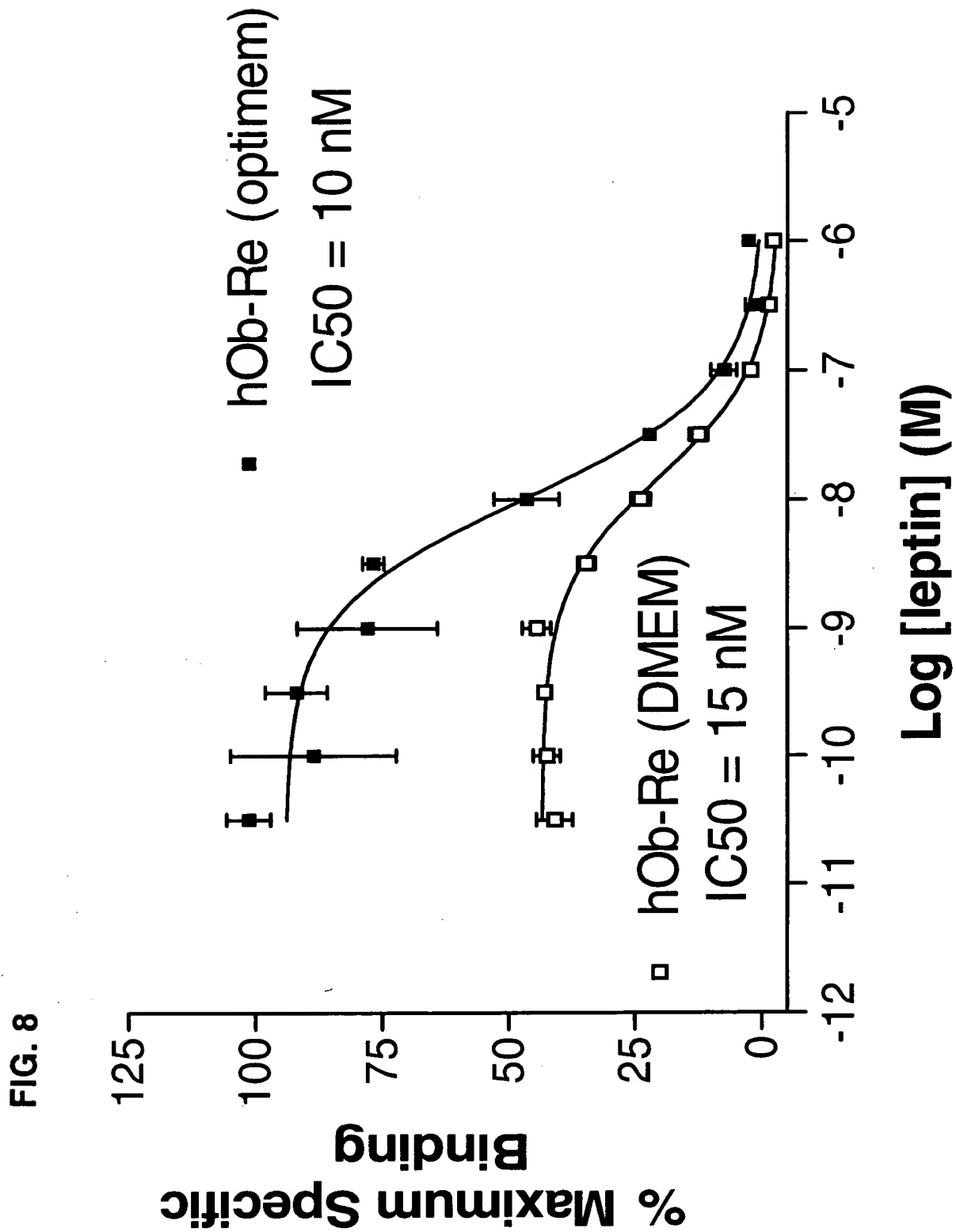


FIG. 7D

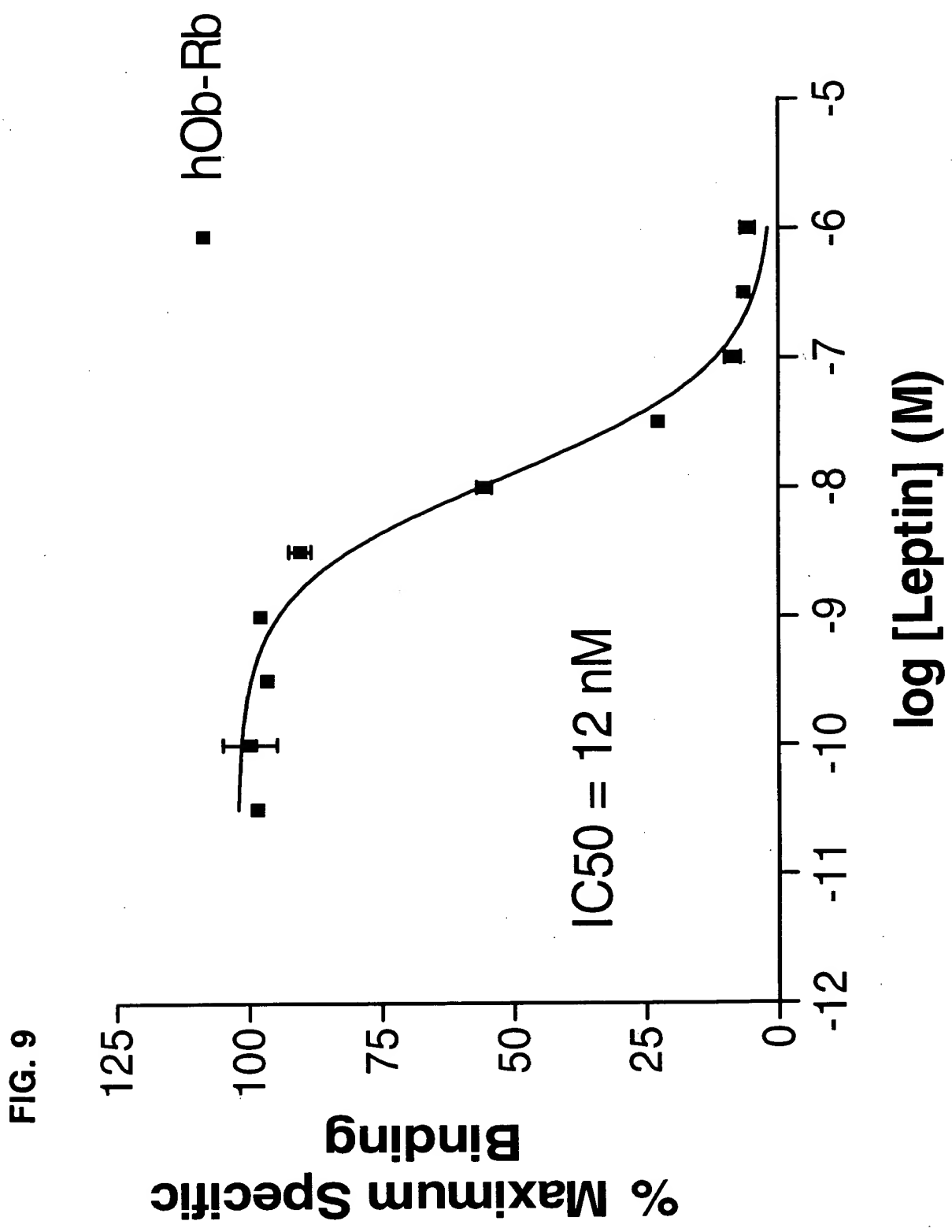


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10/14



11/14



12/14

FIG. 10A

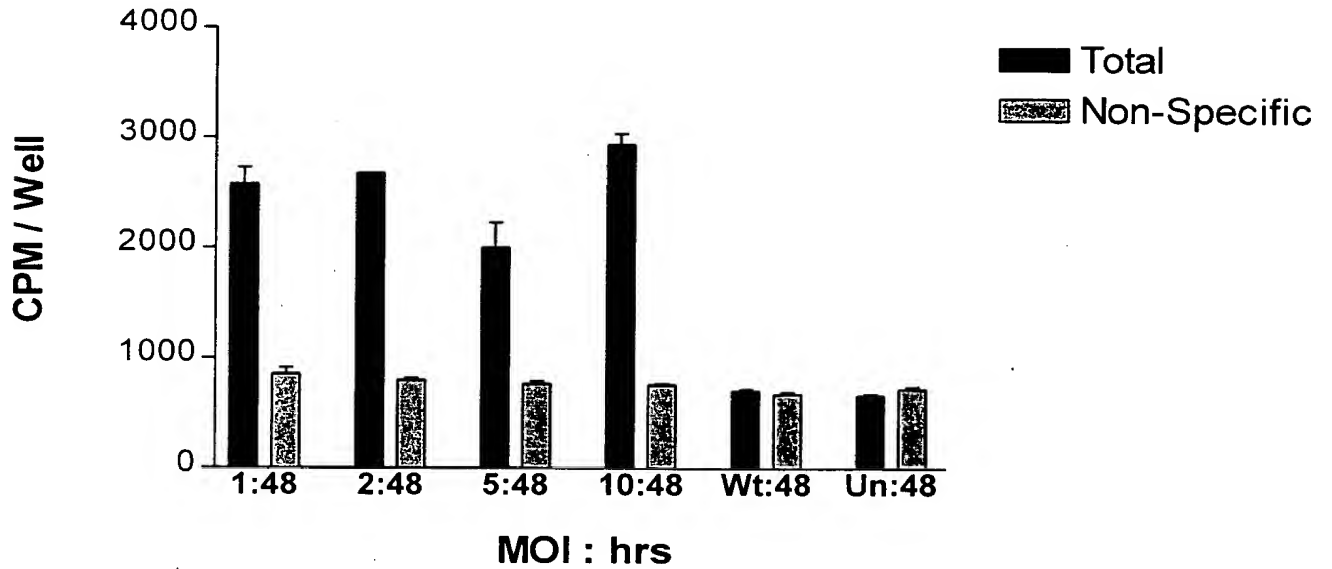
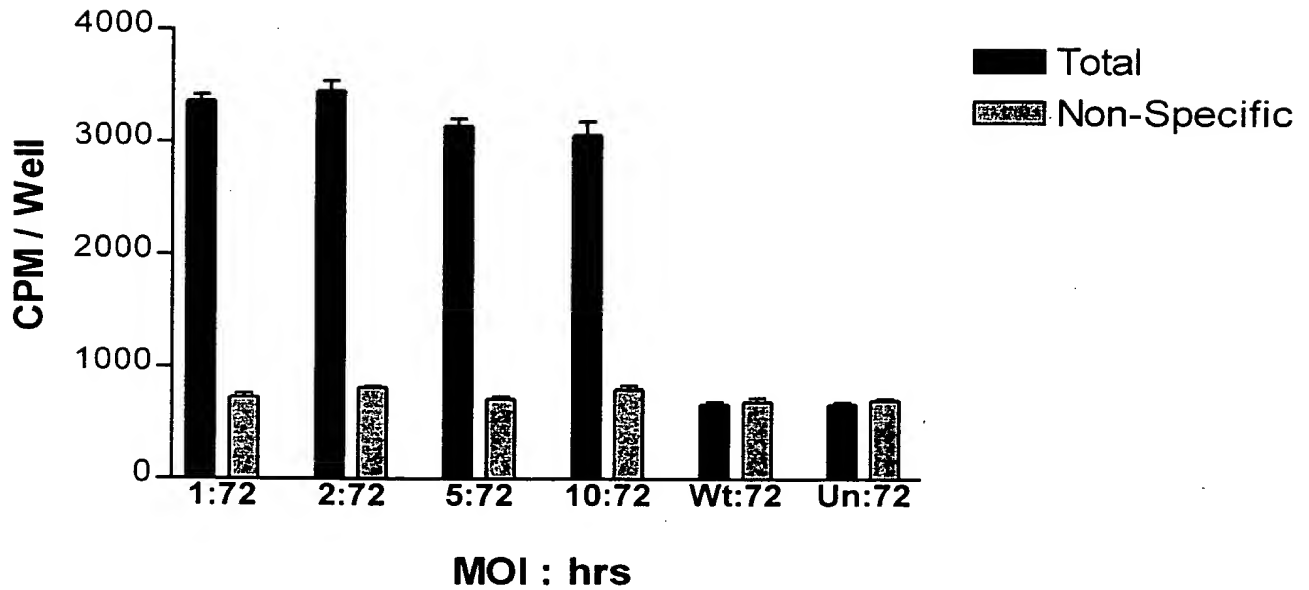


FIG. 10B



0916376-071698
869120-9299160

13/14

FIG. 10C

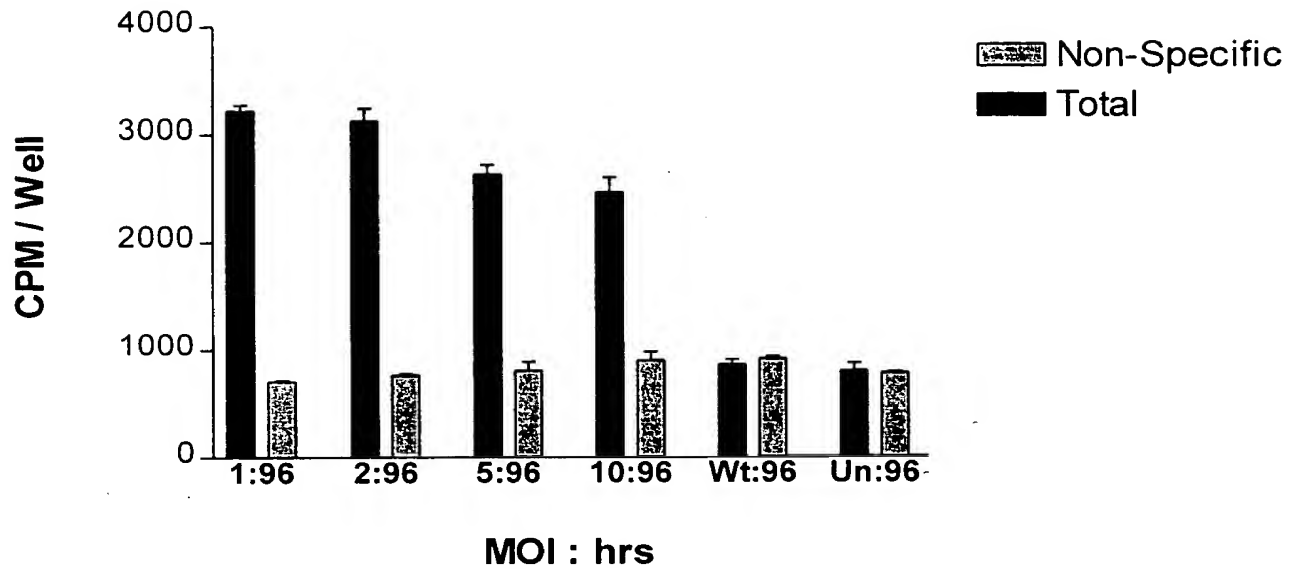
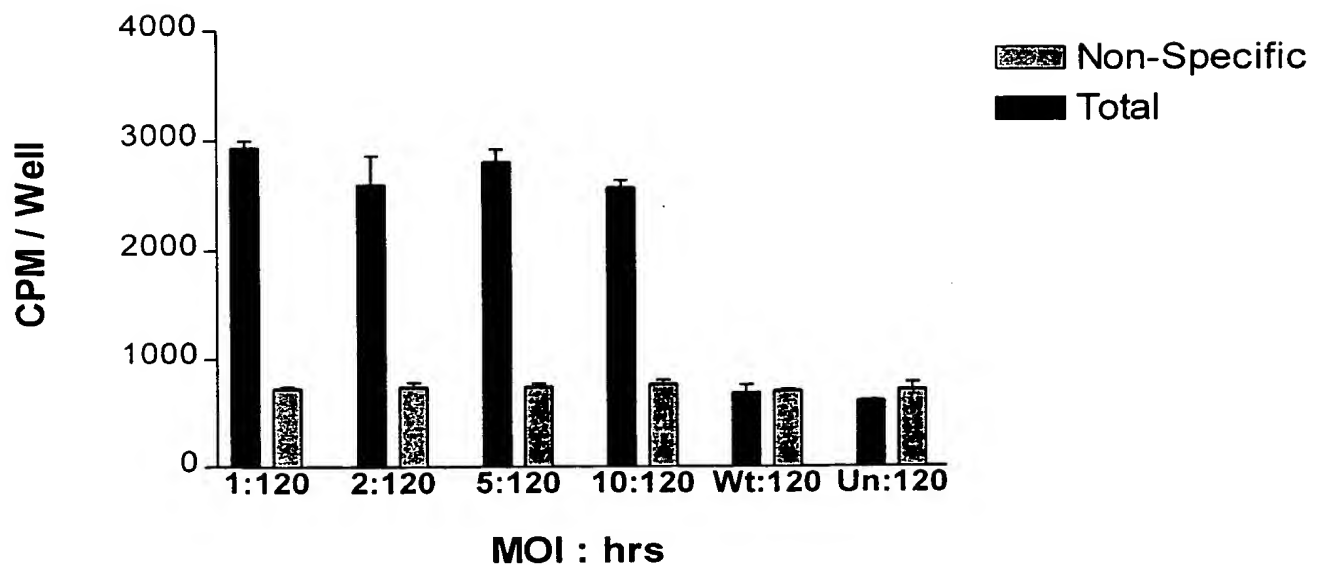


FIG. 10D



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14/14

FIG. 11A

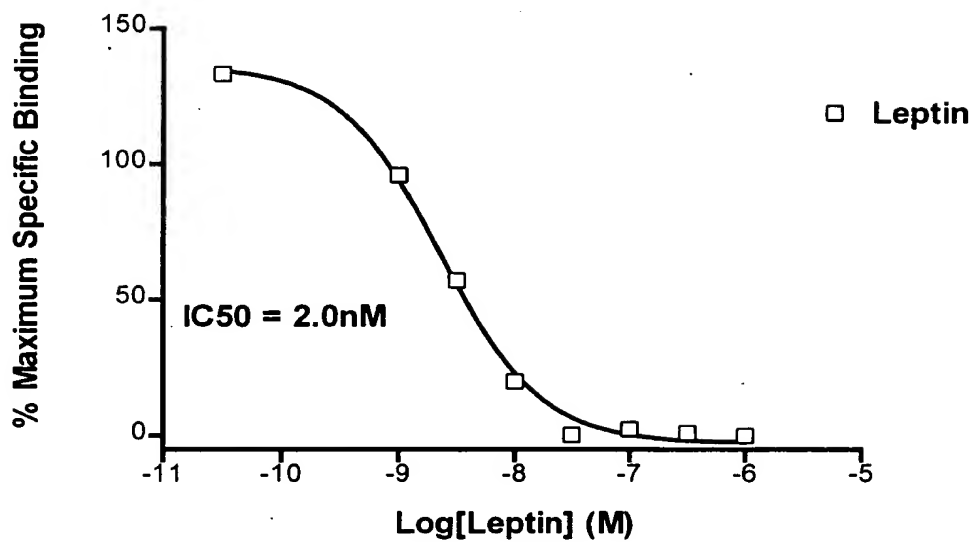
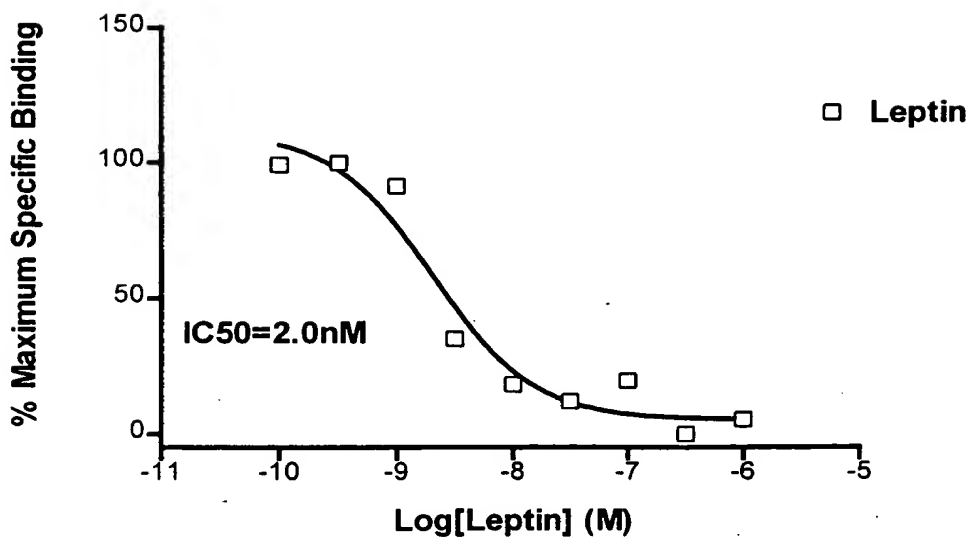


FIG. 11B



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